

## ABSTRACT

A method for determining dental alignment of a 3-dimensional model of one or more teeth of a patient comprises the steps of: (a) obtaining a radiograph of the teeth of the patient; (b) obtaining a digital image from the radiograph indicative of the dental alignment of the teeth relative to a dental arch of the patient; (c) overlaying the 3-dimensional model of the teeth with the digital image obtained from the radiograph; (d) determining vertical and horizontal misalignment of the teeth in the 3-dimensional model relative to the digital image obtained from the radiograph; and (e) adjusting the 3-dimensional model to correct for the mis-alignment, thereby producing an adjusted 3-dimensional model of the teeth that is corrected for the vertical and horizontal alignment of the teeth relative to the dental arch.